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SOVIET STUDIES OF THE HUMAN ABILITY OF SUPER-PERCEPTION

TRANSLATED BY: Li Huang

"Science and Life", a Soviet monthly magazine with a circulation of 3.4 million, in a recent issue published a lengthy major article on the study of the question of the human ability of super-perception. The human ability of super-perception is about the same as what we know as the somatic paranormal abilities. However, it also seems to include certain aspects of QIGONG [untranslatable Chinese idea used in martial arts and deep breathing exercises]. According to the introduction, it is in the early stage of development, and there are heated debates over the controversy. This article will briefly introduce the topic. It would be somewhat unusual to publish a lengthy article in this issue, so a brief introduction follows.

Several years ago, there appeared in a number of publications in the Soviet Union a large number of reports of a super-sensitive (one who is a master of super-perception) who had amazing abilities to diagnose and treat various types of illnesses. Many of the authors pointed out that the super-sensitive can guess the state of the body, and can quickly and accurately determine the illnesses with results better than doctors using various types of instruments and equipment and biochemical examinations. Furthermore, the only tools the supersensitive uses are his own hands. During his examination, the super-sensitive does not need to touch the patient, but need only carefully "feel" the biological field with his hands a few centimeters from the skin of the patient. The patient need not disrobe. Then, depending on the characteristics of the patients biological field, he proceeds with his diagnosis. Actually, he can recognize all types of illnesses which are already known immediately, from spinal meningitis to duodenal ulcers to geriatric hardening of the arteries. As his super-sensitive abilities have improved, he has come to have super human abilities to cure ailments. The super-sensitive still waves both his hands and uses his own strong biological field to act on the patient. After several times, even if the patient is not completely cured of any ailment, he can reduce various symptoms to some degree.

Since the publication of the reports of super-sensitive abilities, a large number of readers began flocking to the editorial department of the publications, asking all sorts of questions which the editorial department could not answer. The editorial department sent a special reporter from its own publication to investigate the matter and to interview the super-sensitive. The reporter's assignment was first of all to learn everything possible from the super-sensitive with power over the biological field and the patients he had cured, to learn many details, and to listen to all types of contrary opinions and evaluations from specialists. He was also to locate

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and carefully read the many different articles already published. The following is the special reporter describing his assignment in the first person.

I found this assignment strongly attractive. Also, not long ago a great deal of hope arose concerning the clarification of the basic key elements of "super-sensitive abilities". This anticipation was based on the combination of work done in laboratories under the direction of academician [REDACTED] YURI VASILIEVICH GULIYAYEV [phonetic] and physicist mathematician Doctor ADEHUA AIMANUYINLEVICH GEJIKE [phonetic]. Here I will talk about the results of their research and my impression and thoughts during my interview. The revelation of the truth of super-sensitive abilities also began gradually. It was very interesting.

We sat in an old style MOSCOW brand automobile, setting out at four in the morning from the sleeping capital and never stopping. In the early evening we arrived at BULIESIKE [phonetic] more than 1,000 kilometers away. We did not stop over in the city, but proceeded directly to the border defense traffic inspection station. It was another 200 kilometers from there to Warsaw. We wanted to hurry up and get there to take part in the international science and technology symposium. It looked like we would have no problem getting there on time. After we arrived at the border defense inspection station, we had to sign exit cards and show our papers. Before long, we would be notified that three of us were permitted to leave the country, but one of us was not allowed to leave because the expiration date on his papers was not clear. What could we do. We did our best to come up with some way to solve this problem. At first we dealt with a young duty First Lieutenant, later with the ranking officer of the border defense inspection station. The people we made contact with were all extremely likeable and expressed their sympathy. They were willing to stretch the rules and make concessions as far as their individual affairs were concerned, but they resolutely refused to act in violation of regulations concerning crossing the border. Therefore, there was nothing else we could do, and the other person flew back to Moscow early the next day to get the necessary papers stamped and returned to BULIESKE that night. As a result, we were a day late in arriving at Warsaw. By this time, the incident at the border inspection station was all but forgotten. However, we had learned a lesson and an important principle. In the words of the first lieutenant: "all border inspection stations have to make a check. We cannot violate this principle." This is true. Super-sensitive abilities have to be inspected using science and technology before it is released; before it will be accepted by the people and finally widely used by them.

The following excerpts of conversations come from my notes of my conversation with academician GULIYAYEV [phonetic] deputy director of the Soviet academy of Sciences Radio Technology and Electronics Institute and director of the Radio Electronics Remote Sensing Methods Graduate Body Laboratory.

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"Construction of the laboratory began in 1962. As time went on, it caught up with the so-called period of intense interest in super-sensitive abilities. Because of the great interest of the broad masses, I should explain a few things to convince them. As for the rumors concerning the mysterious "diagnosis" and "curing", there is basically no objective informational data. Therefore, we have decided to ~~use precision methods of physics and radio electronics to conduct a thoroughgoing research and~~ we hope that we can ~~clarify and disclose whether or not there is any element of this theory which coincides with the principles of physics.~~"

"Have you come to any understanding?"

"More on that later. Now I should point out that paranormal and supernormal are only fragments. The primary studies of each of the research groups were all different. For example, a long time ago we began serious study of just exactly what type of physical field surrounded the human body, in what forms did it manifest itself, how could it be used to collect information for biological research and in applied in medical practice. We came up against two problems in forming a study team at the radio technology and electronics lab. The first was that the laboratory had traditionally concentrated on biological and medical topics. All we had to do was mention the huge cycle of the research work directed by the academician NIGULA DEMITELIYEWEIQI JIEWEITEKE [phonetic], the items they studied were mutual effects of radio waves (primarily super high frequency) and biological factores. Second, the institute placed most of its energies on remote sensing research. For example, by radio sensor of Venus in the beginning until later when we were able to use radio methods to locate ore. Naturally, this is a different type of problem. However, there were a number of common points between them. Once we started, we concentrated on seven channels for transmitting different types of information. (1), surface infrared radiation. (2), Radio radiation which could reflect the temperature of internal organs. (3) Electronic fields. (4) Magnetic fields. (5) Chemical luminescence (luminescence outside the skin within the light wave parameters). (6) Sound waves. (7) Chemical compounds emitted through the skin in the form of evaporation. We have conducted research on most of these channels. Some have even been used in clinical diagnosis. However, we still decided to start from scratch and do an exhausting new study with a strictly scientific attitude, and we have had a number of encouraging successes, especially thermoscopy, which has not only created new possibilities in the study of skin blood circulation, but has created new possibilities in brain research. Through the study of minute changes in the mechanism of heat exchange in the skin, many new things may be discovered."

"Does your plan include study of persons with super-sensitive abilities? And if so, how can you test for these abilities?"

"First of all, the word "super" may not be appropriate here. Whether it is one of the seven channels I mentioned earlier or if it is a different

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nature of thing than the general abilities of most people which no one can detect, the heat radiation from the hand is enough to be detected by others. as for whether or not it is possible to use this type of energy for diagnosis or treatment, you should not ask us, but you should go ask a doctor. Of course this question should not be considered independently at some public academic symposium, but this question should be answered by arranging clinical experiments, and find out if it is of benefit to the doctors, because the hands are natural thermometers and the hands are natural warmers. I should emphasize, that I am only talking about doctors and professional super-sensitive. As I see it, if it were done by an outsider, even a harmless massage could result in a great deal of discomfort. I really regret that our Ministry of Public Health did not research this, but allowed it to be turned over to non-specialists to mess it up."

In order to remind everyone of the excitement surrounding the "mysterious biological field" a few years ago, I am going to take a few extracts from publications of that time and talk about them or cite abstracts. This material is only presented for the reader to think about. It is only hearsay, and as for how to explain it, that is entirely up to the reader himself.

"The plant which can detect evidence of a crime is capable of transmitting extremely important information, but only a super-sensitive with a great deal of experience is able to perceive and decode this information."

"We have determined that when a super-sensitive is concentrating his thoughts, he can cause his biological field to intensify six fold."

"What kind of special reaction is this, is this your super-sensitive ability? This type of reaction has occurred many times, it is just called by different names, that is all. Furthermore, it is often embarrassing....

-- Yes, why don't I remember this.

-- and you should read about it. For example, 200 years ago all of Europe was astounded by the discoveries of Mesmer. He was the primary super-sensitive of that time. He was able to receive a special type of magnetism from the earth and because of this he was able to cure peoples' ailments. This kind of thing has been attested to by eye witnesses and patients who have been cured, the facts are there.

-- If there are people who say it is so, then it must mean that there is such a thing.

-- Here you go again with "what is it". The great LAVOISIER, a scientist who turned chemistry into a science through precise measurements, made a detailed study of the effectiveness of Mesmer's cures. Later he provided hard evidence that there was no effectiveness whatsoever. Do you know the difference between "hard evidence" and "everybody knows?"

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"The brain can have the effect of a super conductor. For some people, they only have to concentrate and they can successfully establish a desired channel between their own bodies and an objective target. Once it is concentrated it is an intensified biological field. Under certain conditions, there was even ball lightning in such channels."

The following was extracted from my notes of talks with laboratory researchers, MATALASHAOFU [phonetic] who is head of the research team, and assistant professor of physics and mathematics GULAFUMIUFU [phonetic].

-- What we are studying is the question of a biological entity having a magnetic field. First of all as for the strength of the magnetic field, we remember that close to an iron magnet the strength of the magnetic field is about 100 oersted. The magnetic field of the earth is 0.5 oersted. The intensity of the magnetic field generated by living things is 10^{-8} oersted. Changes in the magnetic field can affect a series of functional processes of the living entity. It can have a clear effect on humans as well. However, with the human magnetic field so weak, it is very difficult to be detected or to be affected by another.

-- Are you following this line of research?

-- The entire world is conducting research. Several major cities in the Soviet Union such as Moscow, HAERKEFU [phonetic], TUOMUSIKE [phonetic], and DUBUNUO [phonetic] have all begun to conduct this kind of research and how biological magnetic fields assist in clearing up important details in the biological processes. At the same time it is providing new possibilities in medical diagnosis.

-- What can be learned from a doctor analyzing a person's magnetic field? Also, how are these magnetic fields generally produced.

Normally, the magnetic field only occurs when a magnetic charge is in motion. The different magnetic signals in our bodies are caused by the ion current which occurs simultaneously with nerve impulses. As for magnetic diagnosis, well, at the present time the magnetic signal tapes can be used in studying the heart, brain and muscle signals. Our laboratory has already cooperated with the Soviet Union Academy of Medicine All-Soviet Heart Treatment Science Center in a joint study of the question of the weak magnetic field of the heart. One of our tasks is to accurately locate the focus of various disorders. This will assist in reasonable and effective treatment.

-- Do you mean say that you cannot use the extremely simple traditional methods such as EKG to locate the focus of disorders.

-- Currently new methods are required, because the traditional methods can only determine the general location of the disorder in the heart, and

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when modern medicine is conducting targeted treatment, it requires more accuracy. When traditional methods are recording the heart current, it receives interference from different currents from other tissue which can cause serious image distortion. However, it is a different story when using magnetic fields. The magnetic field is like the body is completely transparent. It does not generate any interference or distortion. Therefore, methods of recording the magnetic fields formed by the heart determine specific seats of disease with an error of no more than one millimeter. Prior to these methods, however, in order to record this type of magnetic field it was necessary to insert an electrode into the heart.

-- What is the difference between recording the magnetic field of the brain and recording the magnetic field of the heart?

- The major difficulty in studying the brain is that the brain magnetic signals are at a very low level (too weak). The intensity of recorded brain magnetic field intensity is only 10^{-8} oersted. This is only equal to one percent of the intensity of the magnetic field of the heart. Furthermore, it is extremely difficult to differentiate the extremely weak brain magnetic signals from interference several tens of thousands of times as strong. We are presently doing research on a type of new method called ~~search and capture of brain magnetic fields.~~ It is the use of sound, flashes of light and weak electric current to stimulate magnetic reaction from the brain. An even more important task is the study of structure of different regions of the brain and their operational sequence.

-- Is there interest in applied medicine toward studying the magnetic fields of the brain?

-- Of course there is interest. For basically the same reasons, the chart of the brain's magnetic field, just as the chart of the heart's magnetic field can precisely locate the seat of a disorder in the brain, and can do it much more accurately than traditional methods of using EEGs. Under many conditions, such as neurosurgery, a chart of the brain magnetic field is extremely important.

-- Does this mean that the recording of brain and heart magnetic fields will be adopted by clinical doctors?

-- Undoubtedly it will be used in various large hospitals. However, many complex problems must be resolved before they can be put to actual use, especially mass production of super conductor quantum interference (magnetic field) detectors and magnetic field intensity measuring devices. From the surface, this kind of precision instrument will basically be a super conductor loop, with one or two high level connecting apparatus (called JIAOZEFUSUONOFU contacts) [phonetic]. They will all need to be immersed in liquid helium. They would have the ability to detect the weakest of magnetic fields, as weak as 10^{-12} oersted. Therefore, it can actually be truly called an instrument with super-sensitive abilities. It will be have super

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sensitivity, and obtain successful results in the study of human super-sensitive ability.

This brilliant creation will soon enter the realm of medical common treatment. I am afraid none of us can find suitable words to praise this type of modern medical new technology.

The following was extracted from my notes on talks during my visit with lab researcher and physicist and mathematician Assistant Doctor MIUXING [phonetic].

"We are beginning to study the always existing, more accurately the rarely changing, human body magnetic fields. We have completely entered another realm, we have entered the exhaustive study of several micromechanisms of control of body temperature. This is not a shift in interest. We were searching for the electric power source for the body's magnetic fields and discovered that the electrical power source is on the skin. Thus, we should analyze its nature, and this unavoidably led to the study of the processes of body temperature control and heat transfer. The skin is a very complex biological living machine. It's a primary object of our long term research.

-- Both skin and heat control have been studied for dozens of years. Almost everything has been researched. Do you think that all the subtleties and minor details have been discovered?

-- However, when we start to take a close look, and conscientiously measure and use the philosophy of physics to evaluate and analyze, we will necessarily discover several significant and major details. At times we may even change the way we view the basic nature of some things. Thus, we want to make clear what is the cause that generates the change in the static potential on the surface of the human body.

-- Excuse me for interrupting, but I would like to know where the electrical charge comes from. Where does the body's magnetic field first appear?

-- The human body permanent static electric field has been known about for a long time and has been measured on many occasions. However, there are a number of different interpretations of this phenomenon. There are even people who believe that there are electrets - permanently magnetized electrovalent elements on our skin. Actually, because of the life in our bodies, it can cause the surface skin to have a weak potential of 0.05 volts, and the maximum potential may be as high as ten volts. For example, rubbing the back of the hand briskly several times can generate this result (friction generated electricity).

-- Can the use of this type of method to generate electricity generate much more than 10 volts?

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- Normally not. The electrical field voltage at some spots may be higher, but sparks will occur at the high voltages, and this will restrict the increase of the potential. It is not important to know where the static electrical field on our bodies is generated. The important thing is what causes the static electric field and how is it quickly lost. In this process, the primary role is played by the subcutaneous layer of the skin which is only 40 microns thick. The subcutaneous layer is also an excellent insulating layer. After the surface generates electricity from friction, it becomes a unique capacitor. The subcutaneous layer is a dielectric. Furthermore, the lower skin has relatively good conductivity. The changes in potential are conducted throughout the body to create a magnetic field. If the subcutaneous layer generates free electric charge, then there is a "current". When a capacitor discharges, the static electric field is lost. Naturally, this is a macroscopic view, actually the so-called "current" is extremely weak, no more than a few hundred millionths of an ampere. Therefore, the change in the potential on the external layer are also extremely slow, and it take several minutes to several tens of minutes to reduce it by half.

In the beginning, we carefully studied the nature of the subcutaneous layer. We measured the resistance to be between 10^{-9} and 10^{-12} ohms per square centimeter.

In order for the human body to adapt to changes in the outside temperature, it has two primary control systems. One of these is the sweat gland systems with which we are familiar. When it is hot, after the hypothalamus receives heat signals, it immediately orders the sweat glands to secrete perspiration through the skin. The perspiration continuously evaporates and carries the heat away. The other system is the cold prevention system. When the weather is very cold, the hypothalamus issues orders to speed up blood circulation and intensify biochemical reaction processes to ensure the energy supply. Finally, it even uses shivering methods to alter the heating mechanism. In addition, the skin also has small systems which function independently in some areas. At 0.5 mm below the surface of the skin, there is a network of capillaries. The dilation or contraction of these capillaries is a primary factor which directly functions to regulate the body temperature. It is responsible for one-third of the heat dissipation.

-- Is a great deal of water evaporated through our skin?

-- An adult will perspire 50 grams over a 24 hour period without realizing it. During heavy perspiration, a liter or more can be lost every hour. The area automatic temperature regulating systems can only function within a small range of outside temperatures. For example in a room with a temperature of around 20 degrees Celsius, its operations can reflect a number of important signals such as the blood supply, blood vessel state, the degree of activity in a series of biochemical reaction processes. Furthermore it

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not only reflects the area epidermis situation, but it can also reflect the situation with certain internal organs. Thus, we need only measure the intensity of perspiration of one piece of skin and we can determine the change in the electric field in the area as well as the blood supply situation in the area. This is the overall situation. At the same time this research can also show changes in interesting biological mechanisms and numerical contrasting relationships.

-- Are there remote sensing methods?

-- When an electrical field exists, it is possible to detect this at a certain distance. The faster the electrical field disappears, the stronger the conductivity of the surface layer of the skin. The more charge lost, then the more rapidly the water is transported. Naturally, it is only with electrical methods that it is possible to measure the thermosensitivity of the skin. It appears that the skin thermosensitivity is very high, about 0.1 milliwatt/square centimeter. That is to say, the skin can feel the heat from a burning match at a distance of one meter.

-- You stated that unnoticed perspiration intensity could reflect the state of internal organs, how could it reflect this?

-- A certain functional relationship exists between some internal organs and specific areas of skin through the central nervous system. This area is called the ZHAHALIN - GEDA connection region from the name of the person who first discovered the relationship. He published his discovery of this phenomenon at the end of the last century. In medical papers it is sometimes called the dermatome. The next step is to study why this kind of phenomenon exists from the concepts of the theory of evolution. At times the internal organ will be on one side while the corresponding skin connection region is on the other side of the body. At the present time, the dermatomes have already become diagnostic and even treatment windows for internal organs.

-- How does this work?

-- The live body is an extremely complex system. The connections between each link is very perfect and detailed. Furthermore, there are many kinds of structures. Therefore, in answer to your question I can only select one of the many situations that exist. I have decided to chose the thermal function of the skin ZHAHALIN - GEDA connecting area, to see to what degree it affects the activities of the corresponding internal organs.

-- Is the path toward diagnosis and treatment?

-- It is still a long ways from the research successes we have described above to providing actual treatment. There is still much yet to be done. For example, there are measurements, research, and conscientious

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investigation. Such an important matter should be completely understood, but this has not yet been achieved.

-- Is it currently permitted to treat people through thermal (energy) channels? Just how much heat radiated energy is there in the human hands?

-- The human heat radiation power averages about 100 watts.

-- Is this enough to light a large light bulb?

-- Yes, it is. However, the 100 watts is disperse all over the entire area of the body. About 0.1 watt or 100 milliwatts goes to the hands. Naturally, this energy cannot be considered small. Under various conditions, the skin can feel the heat of the hands from a distance of 20 to 30 centimeters. Actually, the thermosensitivity of the skin is very high. This includes the two hands. They can detect changes in the temperature within 0.3 degrees at close range.

It is very possible that super-sensitive persons collect and make use of patient information and treat the patient based on these heat (energy) channels.

-- What functions would there be, but this still does not mean that treatment

The following extracts are from articles and comments from publications and are provided for the reader's information.

"Some people believe that images and thoughts can both be transmitted long distances. This is not the case. Actually, the only thing that is transmitted is the biological field transmitted by the patients subconscious while the super sensitive is working."

"Why do you doctors still find it impossible to recognize and do not dare to say whether or not you can treat disorders of the so-called biological field?

-- Why would we want to do research on that witchcraft. I do not have the time. I have to see 30 patients every day.

-- You should find the time. Because this so-called witchcraft has attracted the attention of millions of people, and except for you, no-one else is able to clarify it."

This is what that person does. He stretches out both hands to within 15 to 20 centimeters of shriveled green leaves, and it looks like he is going to inject new life into dead cells. After several minutes, the leaves begin to shine, and have been restored to life."

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"I want to emphasize like an expert that acupuncture is far from being an effective universal treatment for every kind of ailment. In the past, it was widely used in many countries in the Orient. This illustrates that at that time it was the only method of treatment that could be accepted (afforded) by the masses."

"We have some bean seeds that have been radiated with human animal magnetism. These seeds grow into good seedlings and plant stalks, and produce twice as much as ordinary beans."

"We not only believe, but actually know that biological fields can cure. A super sensitive held the palm of his hand on my temple for five minutes, and with the effect of his biological field my headache was gone. Do you understand? Completely gone.

-- This could be the "placebo" affect.

-- What does that mean?

-- In experiments we gave patients ANNAIJIN [phonetic] and their headache was gone. But the ANNAIJIN tablets were not the real thing. There was no medicine in them. This was only a type of placebo effect. This type of curative effect does not come from the chemicals, but comes totally from autosuggestion. This is a totally psychological cure.

-- What is the difference. Where does the result come from. I really know the headache is gone, and this is the most important thing.

-- At such times there is no need to stress this type of energy, you were cured by biological field..."

"You speak of the term biological field so loosely, just what is the "biological field"?

- This is a kind of special somewhat magical material phenomenon, it only exists in living bodies...

-- Then, can you devise a means to objectively record, measure and reveal its physical properties?

-- Do you physicists study this type of material phenomenon? We are not interested in more details. Our business is philosophical concepts, expression and recognition..."

"I do not have any factual basis for expressing my approval, but I believe, believe, believe in the biological field....

-- Please believe that we have the freedom to believe..."

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"Your are an arrogant stupid ass. You have already undergone numerous severe attacks. What does quantum mechanics count for. You have not learned your lesson. Did you think that all the animals in the world were as simple as you."

"I never thought about it before, but I am prepared to accept ESP, I am prepared to accept telekinesis, I am prepared to accept precognition. But only if you can show me investigative evidence, only if you can explain the sequence of testing. I cannot believe that any words, any sound can affect object reality."

We can reach a simple conclusion form what was said above. Biological bodies do not contain any special mysterious matter which people have been talking about. However, biological bodies do contain certain basic physical fields which have been recorded. Also, these weak basic physical fields of the human body have been studied. These physical fields include: magnetic fields, sound fields, radio radiation fields, etc. Very significant information can be gained from them. On this basis there have been new diagnostic methods generated and research into their use in treatment. Naturally it is still necessary to have them go through scientific examination. We believe that hypothesis will become reality. Super sensitive ability will eventually become the most effective method of treatment in the hands of the doctors.

Translated by Li Huang (from Russian) "Science and Life" 1987 Issue One.



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